Docket Number (Optional) Application Number 42616-0500 10/664,176 INFORMATION DISCLOSURE CLYAPID Applicant(s) (Use several sheets if necessary) Levi et al Filing Date Group Art Unit APR 2 9 2004 09/17/2003 3661 LES PATENT DOCUMENTS M.UEH EXAMENER PILING DATE REP DOCUMENT NUMBER CLASS SUBCLASS INITIAL IF APPROPRIATE 2001/0045128 11/29/2001 McCall et al. DI 2002/0040601 04/11/2002 Fyfe et al. M 2002/0091482 07/11/2002 Eakle, Jr. et al. DI 2002/0111717 08/15/2002 Scherzinger et al. Di 2002/0128775 09/15/2002 Brodie et al. IJT 2002/0143491 10/03/2002 Scherzinger DI 2003/0018430 01/23/2003 か Ladetto et al. 2,091,964 09/07/1937 DĪ L.F. Carter 3,583,074 06/08/1971 D.H. Baker et al. DI 4,031,630 06/28/1977 **Fowler** Dī 4,143,467 03/13/1979 Erspamer et al. FOREIGN PATENT DOCUMENTS REP DOCUMENT NUMBER DATE COUNTRY SUBCLASS CLASS YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) LADETTO, Quentin, et al., "Combining Gyroscopes, Magnetic Compass and GPS for Pedestrian Navigation", date unknown, Geodetic Engineering Laboratory, Institute of Geomatics, Swiss Institute of Technology, 8 pg. DT LADETTO, Quentin, "On Foot Navigation: Continuous Step Calibrations Using Both Complementary Recursive Prediction and Adaptive Kalman Filtering", date unknown, Geodetic Laboratory, Institute of Geomatics, Swiss Federal Institute of Technology, 6 pg. DI EXAMINER **DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-A820 (also form PTO-1449)

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			THE WATER	ILS PAT	ENT DOCUMENTS					
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	Į.	G DATE OPRIATE	
D		4,347,730	09/07/1982	Fisher e	et al.					
DT		4,611,293	09/09/1986	Hatch e	t al.				•	
17]		4,622,646	11/11/1986	Waller	et al.					
n		4,656,750	04/14/1987	Pitt et a	l.		 		-	
DT		4,809,007	02/28/1989	Hassen	olug					
1)1		4,851,775	07/25/1989	Kim et :	al.					
171		4,887,081	12/12/1989	lihoshi (et al.					
DÍ		4,991,126	02/05/1991	Reiter						
DÍ.		5,067,083	11/19/1991	Nakayama et al.					-	
DÍ	,	5,115,238	05/19/1992	Shimizu et al.						
Ŋ		5,122,960 06/16/1992		Ooka					<u></u>	
				FOREIGN	N PATENT DOCUMENTS					
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~	T	GABAGLIO, Vincen Institute of Technolog	t et al, "Real-Time y, Geodetic Engine	Calibration	on of LEngth of Steps with oratory, 6 pg.	GPS and Acc	elerometers",	Swiss Fede	eral	
DT				J	,,,,,					
	\dashv	LADETTO, Quentin	et al., "Digital Mag	netic Com	pass and Gyroscope Integr	ation for Ped	estrian Naviga	tion", Fac	ulte	
171		LADETTO, Quentin et al., "Digital Magnetic Compass and Gyroscope Integration for Pedestrian Navigation", Faculte ENAC, Institut du Developpment Territorial, Geodetic Laboratory, 10 pg.								
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*EXAMINER INITIAL	INER REF DOCUMENT NUMBER DATE		DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
17)		5,235,514	08/14/1993	Matsuz	aki			<u> </u>	JIMAIL	
171		5,239,264	08/24/1993	Hawks				<u> </u>		
01		5,287,295	02/15/1994	Ives et al.						
n	•	5,287,297	02/15/1994	Ihara et	al.					
DT		5,287,628	02/22/1994	Yamagı	ichi et al.					
DÍ		5,297,050	03/22/1994	Ichimur	a et al.					
D 1		5,319,561	06/07/1994	Matsuza	ki					
DÍ		5,327,348	07/05/1994	Kato						
DT		5,331,563	,563 07/19/1994		Masumoto et al.					
M		5,404,307 04/04/1995		Odagawa						
DÍ		5,424,953	06/13/1995	Masumo	oto et al.					
				FOREIGN	PATENT DOCUMENTS					
	REF	DOCUMENT NUMBER	DATE	DATE COUNTRY		CLASS	SUBCLASS	Trans YES	station NO	
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	& MARTIN AND		NAME	CLASS	SUBCLASS	1	G DATE OPRIATE	
页		5,428,902	07/04/1995	Cheah						
ח		5,488,788	02/06/1996	Durbin						
IT		5,583,776	12/10/1996	Levi et	al.		· .			
DT		5,935,191	08/10/1999	Sakana	shi et al.					
DT		5,956,660	11/21/1999	Neumar	an					
חות		5,986,583	11/16/1999	Nakano	et al.					
DT		6,018,705	01/25/2000	Gaudet	et al.					
M		6,032,099	02/29/2000	Fernand	iez					
DT		6,052,654	04/18/2000	Gaudet et al.						
5		6,067,046	05/23/2000	Nichols				<u></u>		
DT		6,081,230	06/27/2000	Hoshino	et al.		<u> </u>	<u>L</u>		
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				U.S. P.S.	ENT DOCUMENTS		3001			
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE OPRIATE	
Dī		6,122,960	09/26/2000	Hutchin	igs et al.			U AFFR	PRIATE	
DT		6,132,391	10/17/2000	Onari e	t al.					
DT		6,145,389	11/14/2000	Ebeling	et al.		-			
h		6,175,608	01/16/2001	Pyles et	al.					
DT		6,204,807	03/20/2001	Odagiri	et al.					
DT		6,243,660	06/05/2001	Hsu et a	l.					
M		6,282,496	08/28/2001	Chowdh	nary					
DÍ		6,298,314	10/02/2001	Blackadar et al.						
DT		6,301,964	10/16/2001	0/16/2001 Fyfe et al.		·				
DT		6,305,221	10/23/2001	Hutchin	gs	-				
DT		6,366,855	04/02/2002	04/02/2002 Reilly et al.						
				FOREIGN	PATENT DOCUMENTS					
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				Docket Number (Optional) 42616-0500	•	Application Number					
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			DATE	OS. PAT	ENT DOCUMENTS						
•EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
bī		6,408,251	06/18/2002	Azuma		-			JI ALL		
3		6,415,223	07/02/2002	Lin et a	·		-				
ρŢ		6,513,381	02/04/2003	Fyfe et a	al.						
DT		6,522,266	02/18/2003	Soehren	et al.				. <u>.</u>		
DT		6,546,336	04/08/2003	Matsuol	ka et al.						
DT		2003/0018430	01/23/2003	Ladetto	et al.						
DT		2002/0089425	07/11/2002	Kubo et	al.						
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